MANY DANGERS FACE OWNER WHO WOULD TRADE OLD CAR FOR NEW ONE

LARGE ALLOWANCE ON OLD MOTOR CAR **TENDS TO MISLEAD**

Shortage of New Autos Increases Price on " Used Models.

DECEPTIVE OFFERS

Says Bargains Often Turn Out to Purchaser's

Loss.

There is only one safe way of paking a bargain when turning in hase of a new car. And that is hase of a new car. And that is o be absolutely certain that you any a fair price for the new car and not be misled by a fictitious allowance on the old one.

If you are offered more for your lides than you know the your results. car than you know in your own nime it is actually worth just ask ourself who will pay for the ex-

You cannot get something for nothing. Such a deal in connection with a motor car is just as mpossible as it is with any other tandard, legitimate product. Every used car has a real value. Classified the value might vary distributed according to different apprairies, it nevertheless has a def-

inite value easily ascertained. When allowances vary widely, it is well to investigate.

It is not what you are allowed on Your old car, but what you pay for the new one and the transporter that you received that you tation value received that you should consider.

If on two cars of practically the same selling price you are offered a meat deal more for your used car in exchange for car in exchange for one than for the other, you may be sure that the growth. It will value: On close study you will no doubt find that one of the two car-

WASHINGTON'S STORM FIGHTERS.



One of the strong busses of the Washington Rapid Transit Company, which greatly aided snowbound and weary pedestrians during the big snow last week to arrive home in time for supper.

The men seen on the "loyal giant" worked many hours striving to clear the streets of deep snow.

BRIGHT OUTLOOK IN MOTOR **WORLD FORECAST FOR 1922.**

Says Sweeping Road Development Will Give Owners More Value Per Vehicle.

valide: On close study you will no doubt find that one of the two carries a highly inflated selling price.

expansion. By this I do not mean stand not only the problems of manufacture, but also the difficulpermuting a fictitious allowance be larger production. In fact, anyties in the repair and service shops

only thing to do is first to be posi-tive that you are getting full value edly go on. The important thing customer well. Time also is giving in the new car at the manufactur-for him, however, is not an addition the local man a chance to know Make sure that the quality the price, promises is there. Study the car from every angle and compare it, point by point ,with other cars similarly priced.

The production of 1921 probably similarly priced.

The production of 1921 probably silving satisfaction to the car own-figuring yourself. Tour investigation will disclose whether or not the car own opportunity to study their service ability to his physical size.

The production of 1921 probably giving satisfaction to the car own-figuring yourself. Tour investigation of motor transportation.

The year 1922 will give many factories an opportunity to study their services and opportunity to study their services an opportunity to study their services and oppor to his bulk, but fuller use of the what the motorist wants. The year

tion will disclose whether or not you are getting value in your new car and a fair allowance for your used car at the same time.

The used car market, like other tories will be better to the past four or five years. During the bast four or five years. During the bast four or five years. During the bast four and immediately after its, taiton casts which will effect owner. markets, has seen many changes in the war and immediately after its, thou are and immediately after its, thou are not because there was anything of greater value in the car, but because of the production of new cars was far below the demand for personal transportation.

The shortage of cars made it easy the material and other agencies of what his repairs are going to will earry on studies of transportation of studies of transportation of the years of the production of new cars was far below the demand for personal transportation.

Governmental and other agencies of twansport cost him. There will be increased to the measure will be service stations and then if they service stations and then if they do not get the treatment to which they feel they are entitled, they measurably improved, as the extense will carry on studies of transportation.

The shortage of cars made it easy ferences in currencies on a basis protest to the home office. tion.

change rate will then readjust dir-factories by entering a ferences in currencies on a basis protest to the home office.

The year 1922 will be a year of ten years has been working in the laboratory. It has been making a product new in the history of man, and it has taken the product new in the history of man. be larger production. In fact, anyare yourself this question: What in terms of production has a very limited conception of what the inwere paying all cash? What might seem like a bargain on first thought loss when an allowance is made above the used car's market value.

Lase can be avoided in turning in an decar just as it can be avoided in buying a new car outright. The output of years of rapid physical design thing to do is first to be posione who speaks of growth simply throughout the country. Many companies are giving and have given panies are

to sell old cars at good prices.

Demand for a time maintained the prices of new cars and with them the prices of old cars.

The industry in the past halting of demand in foreign mar-

kets as a direct result of the must recognize this as he plans his disturbed economic throughout the world. The lowest was reached in July, as far as commercial trucks were concerned, and in September for passenger cars, pert must reckon with its influence

cent in October. The percentage of tions, in our recreational areas, in increase in the case of passenger education, increase in the case of passenger cars was 6 per cent over the September exports. A still greater imwhich have brought the highway provement was noticed by the transport officials of the country becoming evident that the curve of stand out in sharp relief, although export trade has turned the corner and is now gradually directed upward.

of the Townsend Federal highway

improved northern isle an invaluable means conveyance of passengers and goods.

The real cause for optimism in foreign trade may be seen in the tendency to restore world-wide con-fidence. With it will be restored exchanges to such levels the depreciated currencies will buy if changed into dollars, practically the same quantity of goods in the United States as they do on the country of issue.

Visualizing Motor Transport.

Leading financial authorities predict a prompt recovery in the truck market with the return of better general business in the spring. The essential factors in the truck ident of the Pennsylvania Railroad. has indicated the trend of motor truck transportation as follows:

"The motor vehicles and the airplane are more likely own, rather than extensively to invade those of the railroads. graph; typewriters have not eliminated the use of pens and pencils. To the extent to which motor vehicles are likely to take over the short-haul freight traffic, the railroads will probably be immediately benefited financially, because shorthaul business is becoming increasingly unremunerative on account of

being carried on by means of specially designed track and trailer combinations. There is every reason to believe that in the transportation of coal from the mouth of the mine there will be from now on a similar marked tendency to utilize power trucks. Just how extensive this movement will be may perhaps be gleaned from the fact that the products from approximately 3,300 mines are being conveyed by motor trucks or wagons at the present time.

With the increase in the number of good roads within the next few years there will come about a more extensive utilization of motor trucks by the farmer as the government estimates that he loses \$300,000,000 yearly in marketing his crops on account of bad roads.

Anyone who has been shaken up on bad roads or has seen a good road fallen into disrepair may look upon 1922 with enthusiasm. The Townsend act, enacted by Congress last fall, continues the usual \$100,000,000 fund for new roads. The Townsend measure, however, carries more of importance than financial aid. It specifies that the tax-payers' money be protected by a maintenance fund so that a road once built will be permanent.

Sunday Auto Car Travel Greatest, Declares Bureau

BUY MOTORS FROM

RELIABLE DEALERS

Many Fine Bargains to Be

Had in Used Car

Market.

While the average buyer is in

clined to be skeptical about used

cars he need not necessarily be too

skeptical. There are many fine bar-

gains to be had, and the new driver

can with much advantage to him-

self start in with a less costly

Many of the cars offered are in excellent condition. It has been

said by some engineers that an au-tomobile is in better condition after

it has been driven 10,000 or 15.000

and had it examined by experts.

This is the moral factor of the re-

used car.

sible traffic you should go on Tues-Roads and Vehicles Perday or Wednesday. Such is the form Real Service to conclusion reached from a study of traffic census taken recently by General Public. the Bureau of Public Roads, United

POLICY TO WORK

NATION NOW HAS

SOUND HIGHWAY

in the years of highway transto go at an hour when there will be the least traffic. Stage between in the most forrard looking crystalization of inlustrial, State and national policies.

Within the short method in the most forwhich there has been the most forrard looking crystalization of inlustrial, State and national policies. 1931 stands out as the period in which there has been the most forward looking crystalization of in-dustrial. State and national policies. Within the short span of its days we have finally come to a realization fundamental fact that after all neither the highway nor the ve-hicle which travels over it can be considered as things apart. Today we know that each is but an aspect of highway transport, and that if is only as the two together perform a real service to the general public

that either can be of lasting value.
The "booster" period has passed.
In the future progress in highway transport must and will be meas ured upon the basis of economic facts both from the standpoint of individual transportation and from the broader viewpoint of an interrelationship of all forms of trans-

Will Help Every One's Business. conditions production, the automotive dealer The lowest must study and analyze it as he surveys his selling territory, the maintenance. compared with July, the truck as he measures the future develop-shipments were higher by 76 per multiple for the future develop-tion of the municipality. Its effect

of the Townsend Federal highway act of 1921, a second the progress made by the Bureau of Agriculture under the leadership of T. H. Mac-Donald and in close co-operation with State highway department, and third, the development of the work of the highway and highway trans-

A Permanent Investment.

In the passage of the amendments intelligent highway policy. Through its recognition of the need for an adequate and connected interstate highway system, through its concentration of Federal funds upon State highway systems not exceedas prevailing traffic needs must be taken into account, the act marks dealer as to the car's value may be cian. a distinct advance over all our pol-

wider out only a continuance of ample ap- He knows two definite things relatpropriations, such as the five-year programme of \$100,000.000 years already before Con- time, and he knows the person who and of motor seems and supported by a strong public sentiment. It is i neonceivable that this will not be granted but here there is a definite field for sequently to insively to insively

benefited financially, because short, haul business is becoming increasingly unremunerative on account of the high proportion of terminal costs which it must sustain."

We shall find in our larger representative cities motor freight terminals exercising important influences on transportation and production. Consolidations of existing motor freight lines will be brought about in the interest of the larger terminal responsibilities to the shippers. This is already in progress in New York, Rochester, Buffalo and other cities. Safe passage of goods between cities will be guaranteed by the use of armed convoy arrangements.

In many instances we shall undoubtedly find as time goes on that the railroads themselves will initiate the allocation of truck and freight car service. The precedent has already been established by the Cascade Railway of Washington, which was recently confronted with the problem of extending its services into undeveloped territory.

If you had the privilege of take.

Cascade Railway of Washington, which was recently confronted with the problem of extending its services into undeveloped territory. If you had the privilege of taking periodic airplane rides over the country you would find that the smoke of the short line railroads would be growing less and less apparent, due to the increased use of motor busses equipped with flanged wheels. Closer observation would reveal that the passenger-carrying traffic is being allocated to street cars and busses, as the latter have been found to make possible the extension of service into new residential and manufacturing centers.

The imminency of the realignment of transportation facilities is quite apparent. Approximately 75 per cent of the hauling in the Texas and Oklahoma oil fields is being carried on by means of specially designed track and trailer combinations. There is every reason to believe that in the trans-

ROTTEN CYLINDERS Auto Car Realm AFFECT ALL PARTS IN MOTOR VEHICLE

Auto Running Unevenly Will Ruin Clutch and Transmission.

The that in a medium type four-cylinder twice motor of five-inch stroke, running sday. at a normal speed of twenty miles into big wolume on Sunday. The volume on Sunday is about twice that on Tuesday or Wednesday. per hour, the actual travel of each piston assembly up and down the walls of the cylinder is over 600 On Monday there is a decided drop from the Sunday figures and on Tuesday the lowest ebb is reached feet per minute, therefore, it is not surprising that these parts, though made of the very best ma-terial, must eventually show wear. There is less traffic on the road between 2 and 3 o'clock in the morning than at any other time of Aside from the natural wear these conditions often occur in motors which are practically new, because day. From 3 o'clock to 5 there is a slight increase; then a steady climb until 11. Between 11 o'clock

and I there is a slight drop, and then an increase again until the peak is reached between 2 and 3. After 3 o'clock traffic drops slightly until 7 when the decrease becomes more pronounced. By midnight traffic has almost reached its lowest point.
Ninety per cent of the day's trafan attractive coat of paint usually constitutes a general overhauling.
And, after all this, the motor doc fic. the census shows rolls over the road between 7 a. m. and 9 p. m., and 52 per cent between 1 p. m. and not have its old power and pep, and the reason for this is:

The cylinders, pistons and rings, the most vital and important parts, which are subjected to the most abuse and wear, and to the greatest variable heat conditions; the parts on which depend the power and snap, the consumption of oil and gasoline have been neglected and placed in the background.

There is only one way to over-come this trouble. The cylinders must be reground and fitted with oversize pistons and piston rings. This important work has been greatly misconstrued and misrepre-

ethods resorted to in the attempt to perform this most essential work. There is a vast difference between boring, reaming, lapping, etc., and actual cylinder grinding. mechanica!

have shown that the most practical method of performing this wark is by grinding.

It is best from the beginning in the United States during 4921

Engineer Appointed.

miles than it was when new, if the use it has seen has en anything like ordinary wear, dowever, the advantage gained through dealing Herman A. Zannoth, who has been in the employ of the Cadillac Motor Car Company for the last nineteen years, has been appointed as considerate of his statements to plant engineer for the new Cadilage of each State, through its drags the buyer of a used machine as he lac factory on Clark avenue, Detic maintenance requirements and through rigid standards of construction in which future as well the new car speaks for itself. relied upon. It may safely be as-sumed that he has tested the car

Cold Weather Suggestions. Use a good anti-freeze solution. Inspect steering gear and brakes.

Change oil frequently in the drawn knows he can sell it to someone in rankcase.

Keep battery fully charged to

avoid freezing ate. Con-not nar-warm up engine before making moment. a start, but do not race it. liable dealer's position that reacts erly

Will Near Basis In Stabilization

"A development of the automoin le price stablization," says H. H Franklin, in a statement just made to dealers, "People ask, What isthe price? Or in other words, Ts your price settled? The interest is not in a lower price, necessarily, but in the assurance that their purchase be on sound footing. "Automobile prices," Mr. Franklin continued, "are considerably under prices of commodities and raw materials.

materials. The deflation which 1921 has worked out will now take the turn to a strengthened price basis at is resolved into an investmen transportation, wherein it is merely a question of 'going and getting back,' nor simply a consideration of a car at a price. Cost per mile considered side by side with the service rendered, is more and more the measure."

mobiles Sold in United States.

Automobile production by American companies for 1921 amounted to 1,700,000 cars of which 1.550,000 were sold in the United States and the remainder in Europe. Although in point of size, this output ranks below 1917, 1919 and 1920 whose vlumes were 1.868.947, 1.974.016 and 2,205,195 respectively, yet it was not below the expected normal increase.
It represents production curtailed only from the flood stage of the post-war demand to the normal level of the reconstruction period. Manufacturers have not yet found it necessary to cut down activities below what might be considered the customary market demand. Translated into tires, this offers a cheerful outlook, says the Miller Rub-ber Company, Akron, Ohio, for a principles general upward trend of the bus-

It is best from the beginning to place this line of work on a higher standard, to make it one of satisfaction and economy to the car owner as well as the repairman and dealer, and spared no effort or expense with that end in view.

In the United States quring two remandactured in Akron, or ording to officials of that city. Ten rubber companies mad per cent of the nineteen mitties turned out in 1921, according to rubber experts. were manufactured in Akron, ac-Ten rubber companies made 75 per cent of the nineteen million tires turned out in 1921, according

An Electrical Tip.

Electrical trouble in the system does not always originate in the battery or the generator, as is generally supposed, but switches, and lights. If these parts are neglected, difficulties in obtaining sufficient current either from generator or battery may fe-

Getting Rid of Impurities.

Before starting the engine, oc-casionally open the drain at the bottom of the carburetor. Water or any foreign matter will be off and possible trouble

Cover the radiator and hood with Renewing Worn-Out Cylinder. The only practical remedy for scored or worn-out cylinders is restart, but do not race it.

Attach chains carefully and propsize pistons and rings to insure before driving on wet and smooth and quiet operation and good compression of the engine.



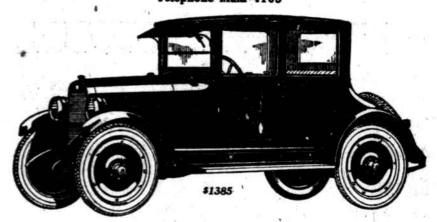
THE piston design and construction devised by Maxwell engineers practically eliminates the possibility of disagreeable and ruinous oil pumping in the New Series of the good Maxwell.

This lessens carbon formation, insuring better motor performance for longer periods of time.

Comfortable, reliable transportation at low cost has always been uppermost in mind in designing the good Maxwell.

Car - \$885 Roadster - \$885 Sedan - \$1485 Coupe - \$1385 F. G. B. Detroit, revenue tex to be added

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START. LIGHTNING'S the fuel for a quick getaway. Giant power, undiminished by carbon's brake-like clutch. Steady-hitting explosions uninterrupted by missing from fouled spark plugs.

Quickest pick-up with ready, speedy power—that's the LIGHTNING START. Do you get it? Not with

ordinary gas. LIGHTNING MOTOR FUEL has qualities unknown

to ordinary gas. Be free from carbon troubles. Keep clear of spark

tery. That's economy and motor wisdom. Get ahead with a LIGHT-NING START-ahead of the

crowd-and ahead in dollars,

Start today with LIGHT-NING, the quickest way to "More M-i-l-e-s of Power!"



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